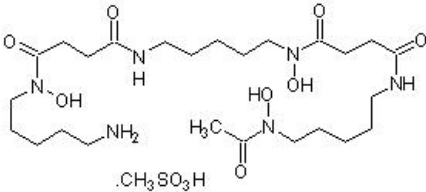


# Deferoxamine mesylate, Iron chelator ab120727

**10 References**    **画像数 4**

### 製品の概要

製品名	Deferoxamine mesylate, Iron chelator
製品の詳細	Iron chelator
生理活性の詳細	Iron chelator. Blood-brain barrier permeable. Displays a number of biological actions such as immunomodulation, inhibition of inflammation and atherosclerosis, and reduction of neuronal death.
CAS 番号	138-14-7
構造式	

### 製品の特性

体系名	<i>N</i> <sup>4</sup> -[5-[[4-5-(Acetylhydroxyamino)pentyl]-1,4-dioxobutyl]hydroxyaminopentyl- <i>N</i> <sup>1</sup> -(5-aminopentyl)- <i>N</i> <sup>1</sup> -hydroxybutanediamide methanesulfonate
分子量	656.79
分子式	C <sub>25</sub> H <sub>48</sub> N <sub>6</sub> O <sub>8</sub> ·CH <sub>3</sub> SO <sub>3</sub> H
PubChem 登録番号	62881
保存方法	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in water to 100 mM
使用に関する注意	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>

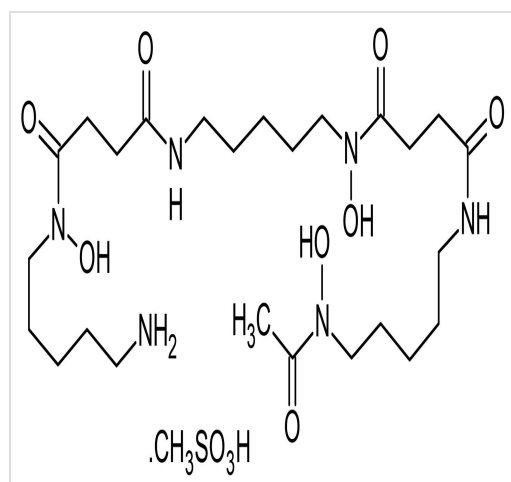
**SMILES 線形表記**
CC(=O)N(CCCCCNC(=O)CCC(=O)N(CCCCCNC(=O)CCC(=O)N(CCCCCN)O)O)O.CS(=O)(=O)O
**由来**

Synthetic

**アプリケーション****The Abpromise guarantee****Abpromise保証は、**次のテスト済みアプリケーションにおけるab120727の使用に適用されます

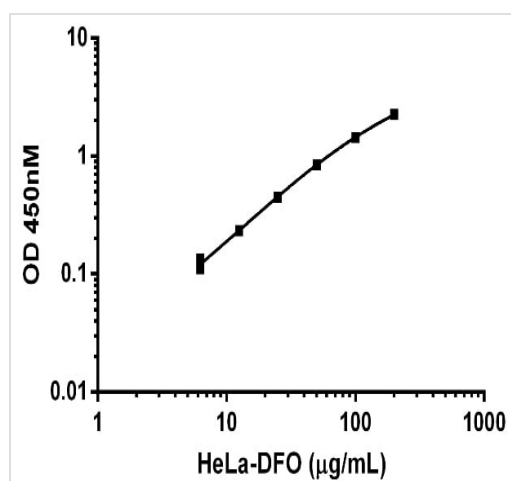
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

**画像**

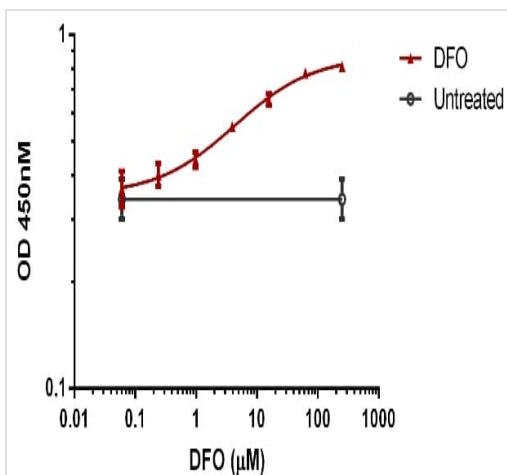
2D chemical structure image of ab120727, Deferoxamine mesylate, Iron chelator

Chemical Structure - Deferoxamine mesylate, Iron chelator (ab120727)



Functional Studies - Deferoxamine mesylate, Iron chelator (ab120727)

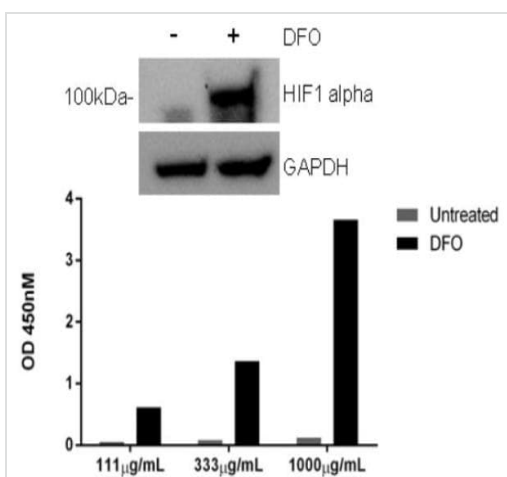
Titration of HeLa-DFO extract within the working range of the assay. Background subtracted data from duplicate measurements are plotted. To induce HIF1 alpha protein levels, HeLa cells were treated with 500 μM DFO (ab120727) for 24 hours.



Deferoxamine mesylate, Iron chelator (ab120727)

Dose-dependent induction of HIF1 alpha in HeLa cells by DFO (ab120727). HeLa cells were cultured in 96-well tissue culture plates and were either untreated or exposed to varying dose of DFO for 24 hours. Raw data with standard deviation is plotted from triplicate measurements.

Dose-dependent induction of HIF1 alpha in HeLa cells by DFO (ab120727). HeLa cells were cultured in 96-well tissue culture plates and were either untreated or exposed to varying dose of DFO for 24 hours. Raw data with standard deviation is plotted from triplicate measurements.



Deferoxamine mesylate, Iron chelator (ab120727)

Comparison of HIF1 alpha expression in HeLa cell extracts (with and without DFO treatment) by SimpleStep ELISA (bar chart) and western blot (top). Background subtracted OD450 nm data from three loading concentrations are shown. The HIF1 alpha detector antibody was used to blot the same lysates as analyzed by SimpleStep ELISA (40 μg loaded/lane). The GAPDH blot is included to show the relative loads of each lysate. In the HeLa cell line, DFO treatment is required to detect HIF1 alpha protein by both SimpleStep ELISA and western blot.

Comparison of HIF1 alpha expression in HeLa cell extracts (with and without DFO treatment) by SimpleStep ELISA (bar chart) and western blot (top). Background subtracted OD450 nm data from three loading concentrations are shown. The HIF1 alpha detector antibody was used to blot the same lysates as analyzed by SimpleStep ELISA (40 μg loaded/lane). The GAPDH blot is included to show the relative loads of each lysate. In the HeLa cell line, DFO treatment is required to detect HIF1 alpha protein by both SimpleStep ELISA and western blot.

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